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PATENT  
Attorney Reference Number 4239-62263  
JC05 Rec'd PST/PTO 04 APR 2002

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Schneider et al.

Application No. 10/070,053

Filed: February 28, 2002

For: HIGH SPEED PARALLEL MOLECULAR  
NUCLEIC ACID SEQUENCING

Examiner: \_\_\_\_\_

Date: March 25, 2002

Art Unit: \_\_\_\_\_

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service on March 25, 2002 as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, WASHINGTON, D.C. 20231.

Agent for Applicants

TRANSMITTAL LETTERCOMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

Enclosed is a Second Preliminary Amendment for the above application. The fee has been calculated as shown below.

| CLAIMS AS AMENDED                              |                     |                         |               |          |         |
|--|---------------------|-------------------------|---------------|----------|---------|
| For  | No. after amendment | No. paid for previously | Present Extra | Rate     | Fee     |
| Total Claims                                   | 44                  | - 42*                   | = 2           | \$18.00  | \$36.00 |
| Indep. Claims                                  | 3                   | 3**                     | = 0           | \$84.00  | \$0.00  |
| Mult. Dep. Claims Fee (if not previously paid) |                     |                         |               | \$280.00 | \$0.00  |
| TOTAL ADDITIONAL FEE FOR THIS AMENDMENT        |                     |                         |               |          | \$36.00 |

\* greater of twenty or number for which fee has been paid.

\*\* greater of three or number for which fee has been paid.

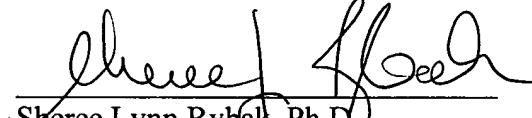
- A check in the amount of \$36.00 is attached.
- Please charge any additional fees that may be required in connection with filing this amendment and any extension of time, or credit any overpayment, to Deposit Account No. 02-4550. A copy of this sheet is enclosed.
- A Marked-up Version of Amended Claims Pursuant to 37 C.F.R. §§ 1.121(b)-(c) is attached.

Please return the enclosed postcard to confirm that the items listed above have been received.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

By



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cc: Docketing



04 APR 2002

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Schneider et al.

Application No. 10/070,053

Filed: February 28, 2002

For: HIGH SPEED PARALLEL MOLECULAR  
NUCLEIC ACID SEQUENCING

Examiner: not yet assigned

Date: March 25, 2002

Art Unit:

#318

## CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service on March 25, 2002 as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, WASHINGTON, D.C. 20231.

Agent for Applicants

COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

## SECOND PRELIMINARY AMENDMENT

Please add the following claims:

46. (New) The method of claim 23, wherein a plurality of polymerases, sample nucleic acid molecules, or oligonucleotide primers are embedded into a three-dimensional gel matrix.

47. (New) The method of claim 46, wherein the three-dimensional gel matrix is agarose or acrylamide.

## REMARKS

By this amendment, claims 46 and 47 have been added. Therefore, claims 1-33, 35-43, and 46-47 are now pending.

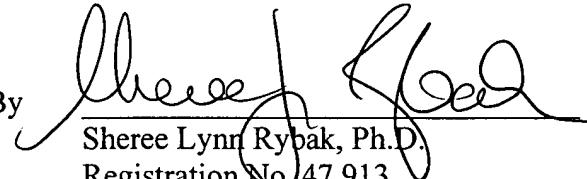
Support for the new claims can be found in the specification on page 6, lines 19-20 and page 24, lines 23-28. Therefore, no new matter is added by this amendment.

If there are any questions regarding this amendment, please telephone the undersigned at the telephone number below.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

By

  
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**Marked-up Version of Amended Claims  
Pursuant to 37 C.F.R. §§ 1.121(b)-(c)**

46. (New) The method of claim 23, wherein a plurality of polymerases, sample nucleic acid molecules, or oligonucleotide primers are embedded into a three-dimensional gel matrix.

47. (New) The method of claim 46, wherein the three-dimensional gel matrix is agarose or acrylamide.